# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/13/2016 11:51 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 07/29/2016 03:45 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 122397 | -3 | 6.05 | 122343 | 5.99 |
| Blue | F | SSC | 125000 | 123016 | -2 | 2.91 | 123407 | 2.69 |
| Blue | E | FITC | 22946 | 22279 | -3 | 2.4 | 987 | 9.96 |
| Blue | D | PE | 28770 | 28097 | -3 | 2.02 | 1008 | 9.56 |
| Blue | B | PerCP-Cy5-5 | 51099 | 49685 | -3 | 3.37 | 1435 | 16.87 |
| Blue | A | PE-Cy7 | 42312 | 42184 | -1 | 5.01 | 649 | 35.47 |
| Red | C | APC | 52169 | 52065 | -1 | 2.81 | 3015 | 9.2 |
| Red | A | APC-Cy7 | 56705 | 56323 | -1 | 2.84 | 1168 | 11.36 |
| Violet | B | V450 | 14708 | 14078 | -5 | 4.01 | 677 | 10.49 |
| Violet | A | V500 | 58608 | 57613 | -2 | 3.78 | 2557 | 6.75 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 16611 | 40.31 | 604 | 6 | N/A | N/A | Pass |
| Blue | F | SSC | 60649 | 1.57 | 534 | 16 | N/A | N/A | Pass |
| Blue | E | FITC | 112 | 38.37 | 540 | 9 | 0.0224 | 208 | Pass |
| Blue | D | PE | 221 | 28.41 | 536 | 10 | 0.1707 | 249 | Pass |
| Blue | B | PerCP-Cy5-5 | 225 | 44.48 | 633 | 11 | 0.0101 | 85 | Pass |
| Blue | A | PE-Cy7 | 71 | 120.8 | 684 | 13 | 0.012 | 21 | Pass |
| Red | C | APC | 348 | 27.31 | 595 | 5 | 0.0218 | 99 | Pass |
| Red | A | APC-Cy7 | 129 | 40.67 | 580 | 4 | 0.0054 | 1654 | Pass |
| Violet | B | V450 | 82 | 62.27 | 468 | 9 | 0.0496 | 6095 | Pass |
| Violet | A | V500 | 188 | 39.02 | 498 | 10 | 0.0152 | 6474 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -30.64 | -30.57 | 0.83 |
| Blue | 20.35 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.33 |
| Red | 15.22 | 13.27 - 19.91 | N/A | N/A | 31.04 | 31.28 | 1.15 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9508

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments